

**CA Regional Water Quality Control Board  
San Diego Region**

**B STREET / BROADWAY PIERS**

**DOWNTOWN ANCHORAGE**

**SWITZER CREEK**

**21 APRIL 2003 WORKSHOP**

**Craig L. Carlisle**



- ◆ INTRODUCTIONS
- ◆ CONTAMINATED SEDIMENTS -  
OVERVIEW
- ◆ TMDLs:  
A NUMBER OR A PROCESS?



# INTRODUCTIONS

- ◆ David Barker, Branch Chief
- ◆ Brennan Ott, Project Manager
- ◆ Alan Monji, Environmental Specialist
- ◆ Tom Alo, WRC Engineer
- ◆ Lisa Honma, Environmental Specialist
- ◆ Craig Carlisle, Engineering Geologist

# INTRODUCTIONS

- ◆ Port of San Diego
- ◆ City of San Diego
- ◆ UC Davis  
Marine Pollution Studies Lab
- ◆ CSU San Jose Moss Landing
- ◆ SCCWRP, NOAA, and US Navy



# CONTAMINATED SEDIMENTS - OVERVIEW

- ◆ Definition
- ◆ Why a concern ?
- ◆ Historical perspective
- ◆ Current and future projects



# DEFINITION

*“Sediments containing chemical concentrations that pose a known or suspected threat to human health or the environment.”*



# WHY A CONCERN ?

- ◆ Benthic organisms
- ◆ Bioaccumulation
- ◆ Human food sources
- ◆ Re-suspension



# HISTORICAL PERSPECTIVE

- ◆ 1985 copper ore clean-up
- ◆ Capping Convair Lagoon PCBs
- ◆ Commercial Basin boatyards



# CURRENT AND FUTURE PROJECTS

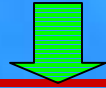
- ◆ Campbell Shipyard
- ◆ Chollas Creek and 7th Street Channel
- ◆ Navy: Boat Channel & North Island
- ◆ NASSCO and Southwest Marine Shipyards

# TMDL: A NUMBER OR A PROCESS?

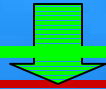
- ◆ A TMDL is a number
- ◆ The term TMDL also is used to refer to a process or a project



Regional Sampling - Impairment Determined



303d Listing - TMDL Required



Site Assessment (Problem Identification)



Analysis (TMDL Development)



Implementation (Source Control)



Sediment Clean-up



# QUESTIONS ?

